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Message Text

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ACTION OES-07

INFO OCT-01 EA-10 ISO-00 SOE-02 AID-05 CEA-01 CIAE-00
COME-00 DODE-00 EB-08 H-01 INR-10 INT-05 L-03
NSAE-00 NSC-05 OMB-01 PM-05 USIA-06 SP-02 SS-15
STR-07 TRSE-00 ACDA-12 NRC-05 AGRE-00 /111 W
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P 280834Z FEB 78
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TO SECSTATE WASHDC PRIORITY 9592
DOE WASHDC PRIORITY
DOE GERMANTOWN PRIORITY

C O N F I D E N T I A L SEOUL 1656

DEPT FOR OES/NET/RD, V ADLER; DOE FOR R WILLIT

E.O. 11652: GDS
TAGS: ENRG, TECH, KS
SUBJ: SOLAR ENERGY DEMONSTRATION PLANS OF KOREAN ENERGY MINSITRY

REF: SEOUL 1160

1. KOREAN MINISTRY OF ENERGY AND RESOURCES (MER) SUGGESTS SOLAR ENERGY INFORMATION EXCHANGE AND TECHNOLOGY COOPERATION, REFTEL, BE CARRIED OUT THROUGH AN IMPLEMENTING DOE-MER LETTER ARRANGEMENT WITHIN THE FRAMEWORK OF NOVEMBER 22, 1976 AGREEMENT RELATING TO SCIENTIFIC AND TECHNICAL COOPERATION BETWEEN GOVERNMENT OF KOREA ND GOVERNMENT OF UNITED STATES AND UNDER THE PURVIEW OF THE US-ROK JOING STANDING COMMITTEE ON NUCLEAR AND OTHER ENERGY TECHNOLOGY MATTERS.

2. MER PROPOSES JOINT PROGRAM TO DEMONSTRATE SOLAR ENERGY TECHNOLOGY IN KOREA FOR FOLLOWING APPLICATIONS

I) POWER FOR ISOLATED ISLANDS (20 TO 250 PEOPLE)
A) SOLAR DISTILLATION OF SEA WATER TO PRODUCE POTABLE WATER.
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B) SOLAR CELL GENERATION OF ELECTRICITY TO PROVIDE:
RADIO COMMUNICATION WITH MAINLAND, RECHARGING OF BATTERIES;
COMMUNITY BUILDINGS, LIGHTING AND ENTERTAINMENT (TV AND RADIO).
C) SOLAR-WIND POWER HYBRID SYSTEM TO PERFORM A AND B ABOVE.

II) AGRICULTURAL APPLICATIONS

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A) RURAL RESIDENTIAL HOUSE HEATING. DEMONSTRATION
UNIT WOULD CONSIST OF FIVE DWELLING SINGLE STORY ROW HOUSE.
FLOOR SPACE FOR EACH DWELLING IS 66 SQUARE METERS (APPROX
700 SQ FT.).
B) CROP DRYING FACILITY
C) SOLAR POWERED IRRIGATION WATER PUMP.

III) URBAN RESIDENTIAL HOUSE HEATING.
A) INDIVIDUAL HOUSE WITH 132 SQUARE METERS FLOOR SPACE.

IV) PUBLIC BUILDING HEATING
A) STORY PRIMARY SCHOOL BUILDING.

3. PROGRAM WOULD BE DIVIDIED INTO PHASE ONE (I, II AND III
ABOVE) AND PHASE TWO (IV ABOVE). PHASE ONE WOULD BEGIN
AS SOON AS POSSIBLE. INITIATION OF PHASE TWO WOULD BE
BASED UPON PROGRESS OF PHASE ONE IMPLEMENTATION.

4. MER IS SEEKING DOE ASSISTANCE IN CONCEPTUAL DESIGN
REVIEW INCLUDING RECOMMENDATION OF APPROPRIATE SOLAR SYSTEMS
AND SPECIFICATIONS OF REQUIRED EQUIPMENT AND INSULATION.
US SOLAR SYSTEM AND EQUIPMENT MANUFACTURERS MAY HAVE
INTEREST IN PROVIDING DIRECT ASSISTANCE CONCERNING INSTAL-
LATION OF THEIR EQUIPMENT BECAUSE OF POTENTIAL MARKET
FOR PRODUCTS. FOR EXAMPLE, $200 MILLION IS BEING INVESTED
THIS YEAR IN A RURAL HOUSING IMPROVEMENT PROGRAM.
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5. MODEL HOUSES WILL BE CONSTRUCTED DURING SUMMER 1978
SO THAT DEMONSTRATION TESTING CAN BE CARRIED OUT DURING
WINTER OF 1978-79.

6. KINDLY ADVISE REGARDING US INTEREST IN ABOVE.
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